

PP-57

COVID-19 Infection: An Overview Of Origin, Transmission, Replication, Pathogenesis And Immunology Of Coronavirus

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A novel coronavirus, designated as the novel COVID-19, emerged in Wuhan, China, at the end of 2019. As of January 2020, at least 800 cases had been diagnosed in nine countries: China, Thailand, Japan, South Korea, Singapore, Vietnam, Taiwan, Nepal, and the United States. 26 fatalities occurred, mainly in patients who had serious underlying illness. Although many details of the emergence of this virus — such as its origin and its ability to spread among humans which remains unknown, an increasing number of cases appear to have resulted from human-to-human transmission. Given the severe acute respiratory syndrome coronavirus (SARS- CoV) outbreak in 2002 and the Middle East respiratory syndrome coronavirus (MERS-CoV) outbreak in 2012, 2019-nCoV is the third coronavirus to emerge in the human population in the past two decades — an emergence that has put global public health institutions on high alert.

Keywords- Coronavirus, fatalities, transmission and respiratory syndrome.